ABSTRACT OF THE DISCLOSURE

If a PHS wireless LAN combo is constituted in which a PHS base station and a wireless LAN base station are placed in the same case, their frequency bands are different but they interfere with each other due to an influence of higher harmonics, which decreases communication efficiency. When a PHS base station is in a transmitting state and a wireless LAN base station is in a receiving state, a transmission signal from the PHS base station is multiplied by a predetermined attenuation ratio so as to subtract an attenuated value from a received signal of the wireless LAN base station, and when the wireless LAN base station is in a transmitting state and the PHS base station is in a receiving state, a transmission signal from the wireless LAN base station is multiplied by the predetermined attenuation ratio so as to subtract an attenuated value from a received signal of the PHS base station.